SERVICE MANUAL

FOR

MODEL
WPP-531-D2-ADA-VA-R-ST24VDC

WEATHERPROOF TELEPHONE
SECOND NUMBER AUTO-DIAL
VOICE ANNOUNCEMENT
24VDC STROBE LIGHT

EQUIPPED WITH SPK-107UNVLr3 FIRMWARE

RED HOUSING & EMERGENCY BUTTON

Serving the Telephone Industry Since 1930

Communication Equipment	**519 SW Park Street**
& Engineering Company	**Okeechobee, FL 34972**
	Voice: 863-357-0798
	Fax: 863-357-0006

IMPORTANT INFORMATION
FOR
CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL: WPP-531-D2-ADA-VA-R-ST24VDC EQUIPPED WITH SPK107UNVLr3 FIRMWARE
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

For us to better serve you, please have this information available when calling for technical support.

CEECO
Communication Equipment & Engineering Company

519 SW Park Street
Okeechobee, FL 34972

(863) 357-0798 Voice
(863) 357-0006 Fax

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1.0   Introduction

The practices in this manual provide installation and maintenance information for the CEECO Model WPP 531-D2-ADA-VA-R-ST24VDC Hands-free Weatherproof Telephone.

The information in this manual is subject to change without notification.

For information not included in this manual, please call or write:

CEECO
519 SW Park Street
Okeechobee, FL 34972

(863) 357-0798 Voice

2.0   General Description

2.1   The CEECO Model WPP-531-D2-ADA-VA-R-ST24VDC Hands-free telephone is housed in a cast-aluminum weatherproof housing.   Instead of a hook switch and handset, a **RED Emergency Call Button** is utilized for the automatic dialing of a preprogrammed telephone number(s). The preprogrammed number(s) may be up to eleven digits. If an emergency call is made with the **Red Emergency Button**, the Blue strobe light will be activated. The call and the Strobe Light can only be terminated by pressing the RED button to hang up, or by the receipt of a wink back from the called party hanging up, or by way of the preprogrammed time out feature.

2.2   The telephone also provides an optional second-number auto-dial feature for the **Red Emergency Button**.   This allows a second number to be automatically dialed, when no answer is received on the first auto-dial number.   The phone can be programmed to select the number of unanswered rings (1-9), after which it will automatically release the second auto-dial number.

2.3   The telephone provides an optional voice announcement feature, which allows a pre-recorded message (up to 10 sec.) to play when the receiving party answers the call. This feature will play to both the near and far end.

General Description Continued…

2.4   The microphone is muted during periods of dial tone eliminating the use of hand held dialers.

2.5   Incoming calls may be allowed or blocked depending on the programming and Jumper settings.

2.6   Programming is accomplished via a separately supplied DTMF keypad.

2.7   The telephone may be programmed to automatically disconnect a call after a selected time period of 1-9 minutes.

2.8   The telephone may also be programmed to automatically dial a PBX or other access number of up to eleven (11) digits in length.

2.9   The telephone is equipped with a 24VDC Blue Strobe Light.

3.0   Programming

NOTE: It is recommended that you ground yourself to prevent ESD
damage to the Printed Circuit Boards.

3.1   **Connect the telephone** to a working telephone line or a DTMF test set
before programming.

3.2   Move the **mini-jumper** (located on the Printed Circuit Board) to the
"ON" position, as depicted in section 12, page 16 of this manual.

3.3   **Press the RED Emergency Button** and wait for dial tone before
programming any digits.   Programming will be accomplished by utilizing
the keypad on the rear if the panel telephone.

3.4   It is important to be slow and deliberate when pressing the keys of the
programming keypad. A missed or partial tone could result in improper
programming.

NOTE: Once the "#" (pound) key has been entered you may get an
operator recording or a fast busy, please disregard and continue
programming.

3.5   Utilize the programming keypad to **enter: # 9 7**

This will **clear all** field programmable memory.

3.6   **Enter #00 followed by** a series of **ten (10) Digits** as selected from the
options on the following page. By entering 0 thru 9 into each of the 10
digits, the phone is customized for the particular installation. A selection
for all ten Digits MUST be entered in order for the phone to operate
properly.

Programming Continued…

Digit 1:
0   **Always 0 for this model**.

Digit 2:
1   **Always 1 for this model**.

Digit 3:
0   No Conversation Time-Out.
1-9 Minutes Conversation Time-Out. (the call will automatically be terminated after the selected number of minutes).

Digit 4:
0   **Always 0 for this model.**

Digit 5:
0   **Always 0 for this model**.

Digit 6:
0   Disable Second Number Dialing and ADA feature.
1-9 Activate Second Number Dialing (number of rings before retry) and ADA feature.

Digit 7:
0   **Always 0 for this model**

Digit 8: (PBX Access – see section 3.9)
0   Do not dial PBX access number stored in Location #l8.
1   Dial PBX access number stored in Location #18.

Digit 9:
0   **Always 0 for this model.**

Digit 10:
0   No Wink Detect.
1-9 Wink Detect (l = 50ms incremental to 450ms, **5 = 250ms recommended**).

- **Be sure to record your selections below for future reference:**

  #00   **0** __ __ **0 0** __ **0** __ **0** __
        1   2   3   4 5   6   7   8 9   10

Programming Continued…

<u>**EXAMPLE:**</u>

Enter #00 0160000005

Phone will be set as follows:

DIGIT 1 -- ALWAYS 0
DIGIT 2 -- ALWAYS 1
DIGIT 3 -- 6 MINUTE TIME OUT FOR EMERGENCY CALLS
DIGIT 4 -- ALWAYS 0
DIGIT 5 -- ALWAYS 0
DIGIT 6 -- SECOND NUMBER DIAL DEACTIVATED
DIGIT 7 -- ALWAYS 0
DIGIT 8 -- DO NOT DIAL PBX NUMBER STORED IN LOCATION #18
DIGIT 9 -- ALWAYS 0
DIGIT 10 -- 250ms WINK

3.7   **Enter #19 followed by the desired auto-dial number**. When the phone is in operation and the **RED Emergency Button** is pressed, this auto-dial number will automatically dial out. This number may be up to eleven (11) digits in length. To Program a **Second Number auto-dial on the RED Emergency Button, Enter # 0 1 followed by the desired number.**

#19 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
#01 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
    (location #01 Second Number Dial for the **RED Button**)

Example: Enter **# 1 9** 5 5 5 1 2 1 2. This will program the phone to automatically dial the number 555-1212, whenever the **RED Button** is pressed. Enter **# 0 1** 5 8 7 5 4 3 0. This will program the phone to automatically dial number 587-5430 if number 555-1212 does not answer.

Programming Continued…

3.8   If it is necessary for the telephone to automatically dial a **PBX or other access number**, enter **# 1 8 followed by the desired PBX access code or number.**   When the **Red Call Button** is pressed, this number will automatically dial out, followed by the auto-dial number.   There will be approximately a one (1) second pause between the dialing of the two numbers.   This number may be up to eleven (11) digits in length.   If this is not a desired feature, proceed to the next section 3.09.

Example: Enter **# 1 8** 9.   This will program the phone to automatically dial the number 9, pause approximately one (1) second, and automatically dial the auto-dial number, whenever the **RED Button** is pressed.

#18   ___   ___   ___   ___   ___   ___   ___   ___   ___   ___   ___

3.09   **Press the RED Button** to hang up the phone and return the **mini-jumper** to the **"OFF"** position, as depicted in section 12.0, page 16 of this manual.

3.10   **Voice Announcement**

- To record the voice announcement**, press the RED Button**, and the phone will dial the preprogrammed number in location #19.   It may be easier to use another working number to do this, other than 911.   In such a case, move the jumpers to enter the programming mode, press the button, enter only #19, followed by the working number and then hang up and move the jumpers back.   Press the button and proceed. When done with the last item in this section, follow this process again to restore the emergency/911 number.

- Ask the called party to put their telephone on **HOLD** or remain quiet while you prepare to record the message.

- Refer to the diagram on page 23 to locate the **Voice Record Switch** on the printed circuit board.   **Toggle** the record **switch** to the **ON** position. The phone's LED will turn red.

- **Speak** clearly and loudly **into** the **microphone** on the front of the phone.   The message can be up to ten (10) seconds in length.

- When finished, **toggle** the record **switch** to the **OFF** position.   The LED will turn off.

4.0   Operation

Action: Connect the phone to the line.
            Press the **RED Emergency Button**.

Reaction: The LED will illuminate red, the blue strobe light will
            begin to flash, and the preprogrammed number(s) will
            automatically dial out. When the call is answered, the
            Voice announcement should be heard at both ends of the
            telephone line, provided a recording of 10 seconds or less
            was prerecorded. A normal speakerphone conversation
            should take place.

Action: If the first programmed number did not answer, the second
            programmed number for the RED button should
            automatically dial out. The dialing for the two
            programmed numbers should continue back and forth until
            one of them is answered.

Reaction: Once answered, the call should continue as normal.

Action: When the call is finished, press the **RED Button** or wait
            until the timeout reset occurs, or the wink detect reset
            occurs.

Reaction: The call is terminated and the LED will turn off.

NOTE: CEECO can not be responsible for the called party's response
regarding ADA features and compliance, and emergency response.

*****WARNING*****

A.   **Never install telephone wiring during a lightning storm.**

B.   **Never install telephone jacks in wet locations unless the jack
         is specifically designed for wet locations.**

C.   **Never touch uninsulated telephone wires or terminals unless
         the telephone line has been disconnected at the network interface.**

D.   **Use caution when installing or modifying telephone lines.**

5.0   Installation Notes and Assembly Instructions

Using a 301-064 security tool (**sold separately**) loosen and remove the security screws.

The security tool is for a standard 5/32" button head screw generally used on the framework of the phone booths.

Separate the faceplate assembly from the weatherproof housing or mounting by pulling the faceplate forward.

Run the inside station wire into the enclosure and terminate on the RJ1lC terminal block inside as depicted on page 18, section 14 of this manual. The CEECO-supplied modular jack MUST be used as it contains necessary over-voltage protection.

The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms. This is with regard to the C.O. or PBX termination points.

Plug the modular line cord from the panel telephone/faceplate assembly into the RJ11C terminal block.

If you have not programmed the Emergency number then it should be entered now. See section 3.0.

Run the 24VDC wiring into the weatherproof housing and terminate as depicted on page 17, section 13 of this manual.

NOTE: There should be no supply to this wiring until installation is completed. All wiring should be accomplished by a licensed professional and with regard to all applicable laws, codes, ordinances, etc…

Dress the line cable and other wires away from the security screws and seat the faceplate into the weatherproof housing or mounting.

Secure the cover assembly by tightening the security screws.

6.0 Recommended Tools and Test Equipment

DTMF test set; Volt/Ohm meter; 3/8" Nut Driver; Flat Blade Screwdriver;

Security Tool (CEECO P/N 301-064)

7.0 Specifications

INPUT POWER:	C.O. Line powered 24VDC/0.44-0.10A for strobe
LOOP CURRENT:	35mA minimum 80 mA maximum
IMPEDANCE:	600 ohms
SIGNALING:	DTMF, 70ms tone, 50 ms spacing
OUTPUT:	-4.0dbm to -6.0dbm
ENVIRONMENTAL:	Temperature 0o C to 50o C Humidity 20%-90%
PROGRAMMING:	Via DTMF keypad.
MEMORY RETENTION:	Non-volatile storage
WEATHERPROOF HOUSING:	Cast Aluminum
DIMENSIONS: (WPP)	9 ½" Wide x 12 5/8" High x 8" deep. (including door).
MOUNTING:	4 holes spaced 8" x 5 7/8" x 13/32" (or optional pole mounting bracket)
WEIGHT:	Approximately 13 pounds.
UL LISTED NO.:	6OF5
FCC REGISTRATION:	BW-88T7-68447-KX-T
TYPE JACK:	RJ11C
STROBE:	24VDC; 0.44-0.10 Amps operating current; 65-95 Flashes per minute; 2.2 joule output; 175,000 peak candlepower.

8.0   Parts List

QUANTITY	PART NUMBER	DESCRIPTION
4	9024	SECURITY SCREW
1	301-018	MODULAR LINE CORD
1	531-000	FACE PLATE
1	301-054	MODULAR CONNECTOR (RJ11)
1	700-008	KEYPAD CABLE
1	660-000	CEECO SPKR. BOARD
1	705-110	CONNECTORIZED KEYPAD
2	6020-B	MOMENTARY PANEL SWITCH
1	14024	SPEAKER
1	12017	RINGER
1	301-14144	24VDC BLUE STROBE LIGHT

Accessories:

1	301-064	SECURITY TOOL

10.0   Repair and Return Information

10.1   WARRANTY REPAIR

Any device returned requiring warranty service, repair or credit must be accompanied with a "Return Material Authorization" (RMA) FORM. It must include: return shipping instructions, original purchase order number and special marking instruction. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

10.2   DIRECT ALL INQUIRES TO:

CEECO
Repair Department
519 SW Park Street
Okeechobee, FL 34972

(863) 357-0798 Voice
(863) 357-0006 Fax

10.3   NON-WARRANTY REPAIR

CEECO will repair equipment out of warranty for a set charge plus parts. The customer must pay the shipping costs both directions.

10.4   RETURN FOR CREDIT

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 20% restocking charge based on the manufacturer's list price. Return RMA must be requested no later than 30 days after original shipment.

10.5   EXCHANGE POLICY

If a replacement unit is required it will be shipped in the most expedient manner consistent with the urgency of the situation. Please contact "customer service" for instructions regarding exchange of modules or printed circuit boards.

## 11.0   WARRANTY POLICY

11.1   GENERAL

CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair or consequential damages of any kind which have been caused by neglect, acts of God, abuse or improper operation of equipment.

11.2   PRINTED CIRCUIT BOARDS

Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by anyone other than CEECO will void the warranty.
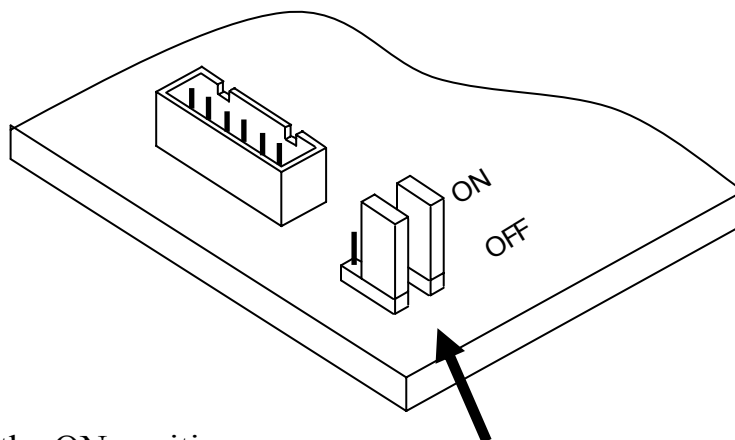
12.0   Programming Jumpers Settings

Locate the mini jumpers
on the corner of the PCB.
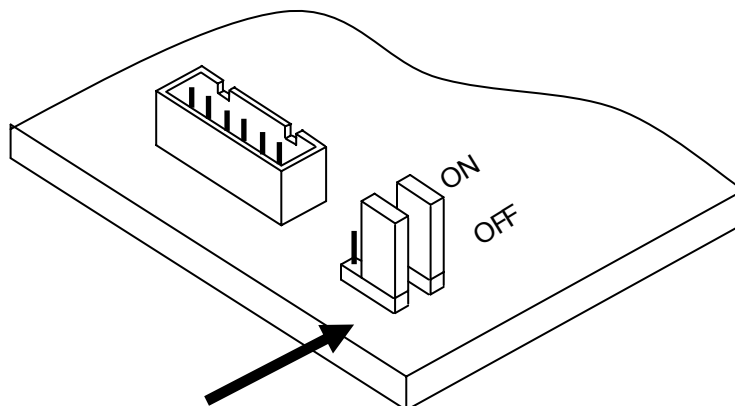
Move the **mini jumpers**
to the **ON** position
BEFORE going off-
hook.
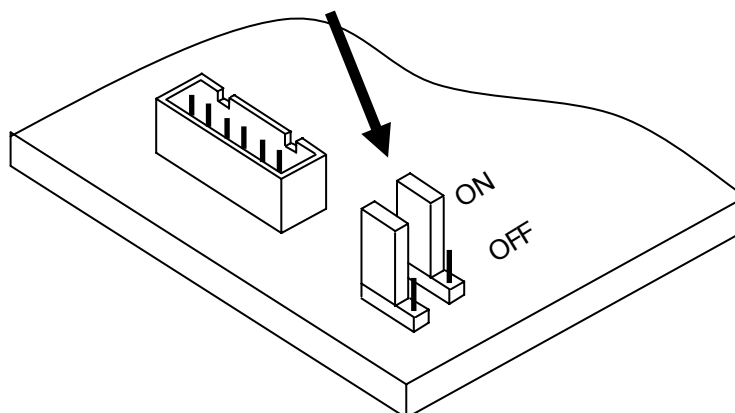
When programming is
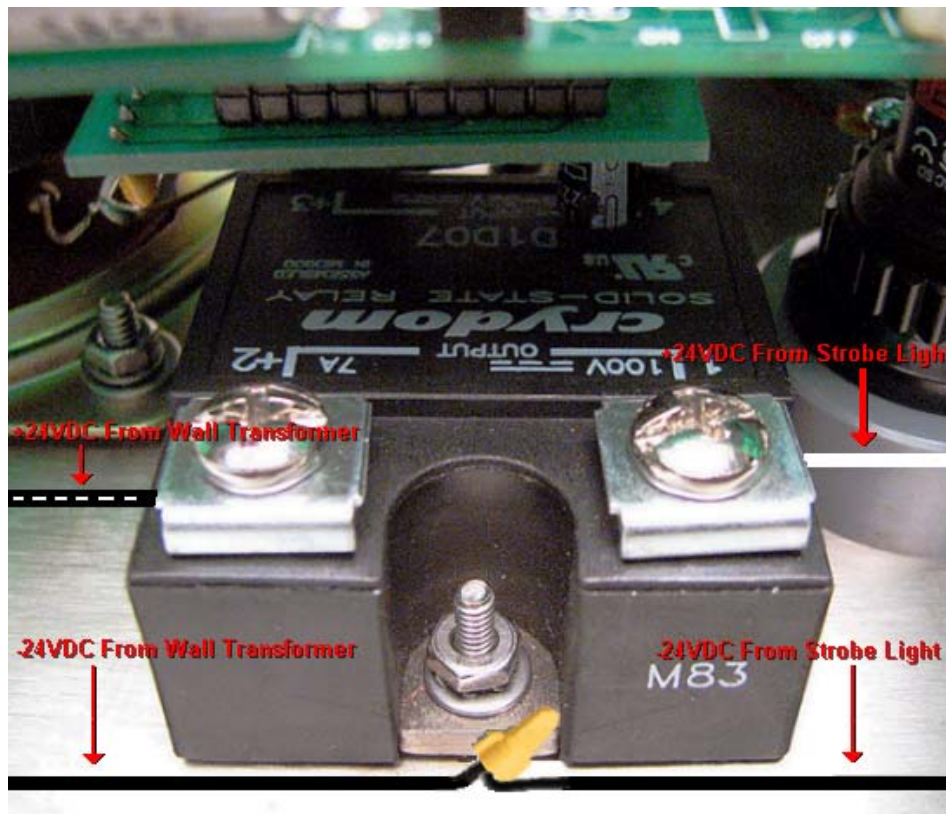completed, move the mini
jumpers to the **OFF**
position.

NOTE:
Do not leave the mini jumpers in the ON position;
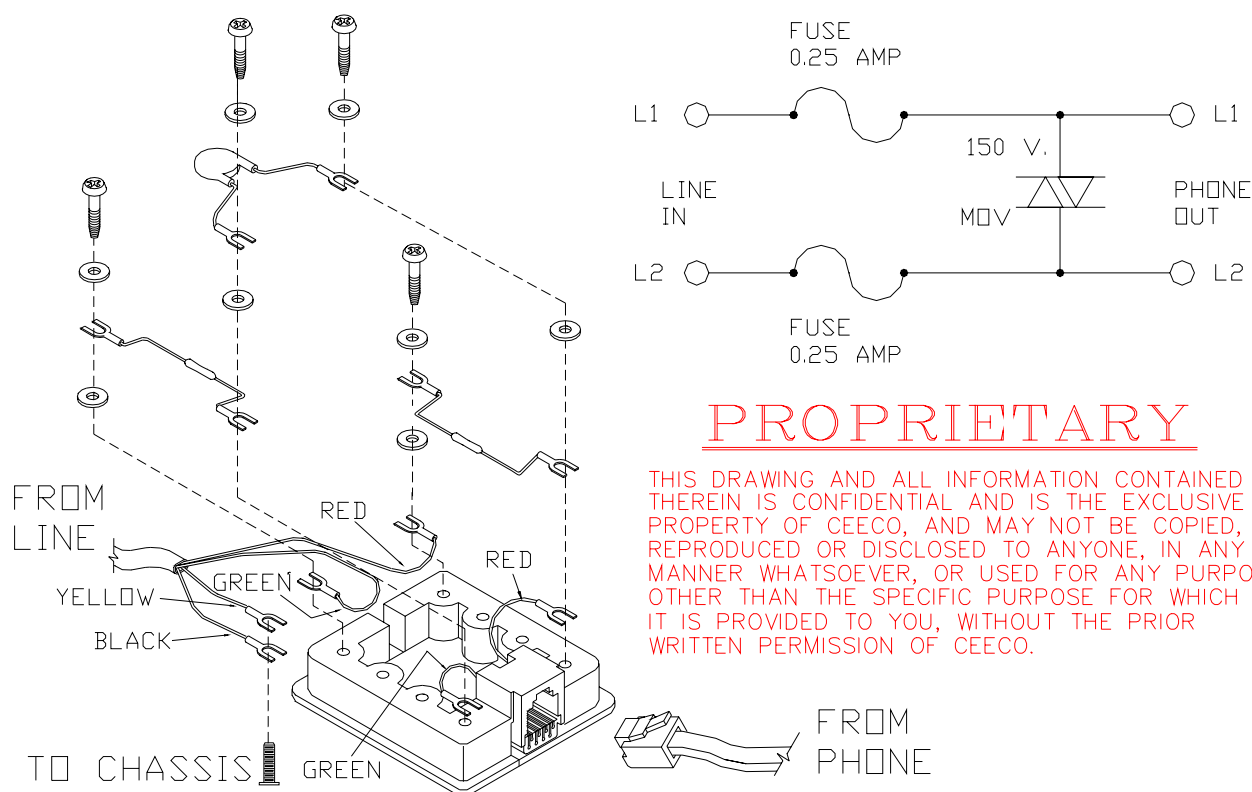this will decrease battery life.

Communication Equipment & Engineering Company
PROPRIETARY

13.0 Installing Strobe Light

Connect   +24VDC to terminal #2 as shown above.

Connect the White wire from the Blue Strobe Light to terminal #1 shown above.

Using the supplied yellow wire nut, securely twist -24VDC wire from your power supply to the Black wire from the Blue Strobe Light.
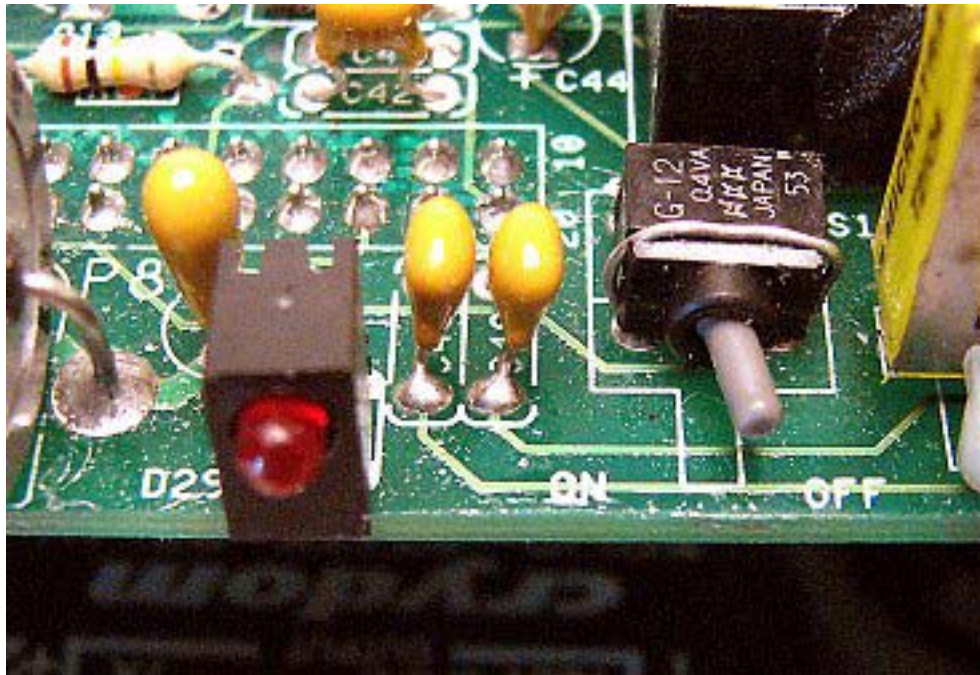
14.0 Installing Modular Protection Jack (RJ-11)

FUSE
0.25 AMP

L1   LINE
IN

L2   FUSE
0.25 AMP

150 V.

MOV

PHONE
OUT

L1

L2

FROM
LINE

RED

RED

YELLOW

GREEN

BLACK

TO CHASSIS   GREEN

FROM
PHONE

15.0 Voice Record Switch

Note: The Red Record LED and Voice Record toggle switch